## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : ODP NEMA Premium Efficiency Three-Product code: 13775157 : 404/5TC Locked rotor time Frame : 18s (cold) 10s (hot) Output : 100 HP (75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 575 V Altitude Protection degree Rated current : 90.4 A : IP23 Cooling method : IC01 - ODP L. R. Amperes : 606 A : 6.7x(Code G) **LRC** Mounting : F-1 : Both (CW and CCW) No load current : 33.6 A Rotation<sup>1</sup> Rated speed : 1780 rpm Noise level<sup>2</sup> : 69.0 dB(A) : Direct On Line Slip : 1.11 % Starting method Rated torque : 40.8 kgfm Approx. weight<sup>3</sup> : 457 kg Locked rotor torque : 229 % Breakdown torque : 270 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.9623 kgm<sup>2</sup> Design : B 50% 75% Output 100% Foundation loads Efficiency (%) 95.0 95.4 95.4 Max. traction : 854 kgf Power Factor : 1312 kgf 0.77 0.84 0.87 Max. compression Drive end Non drive end Bearing type 6316 C3 6314 C3 Without Bearing Seal Without Bearing Seal Sealing 20000 h Lubrication interval 20000 h Lubricant amount 34 g 27 g Lubricant type Mobil Polyrex EM

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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## LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

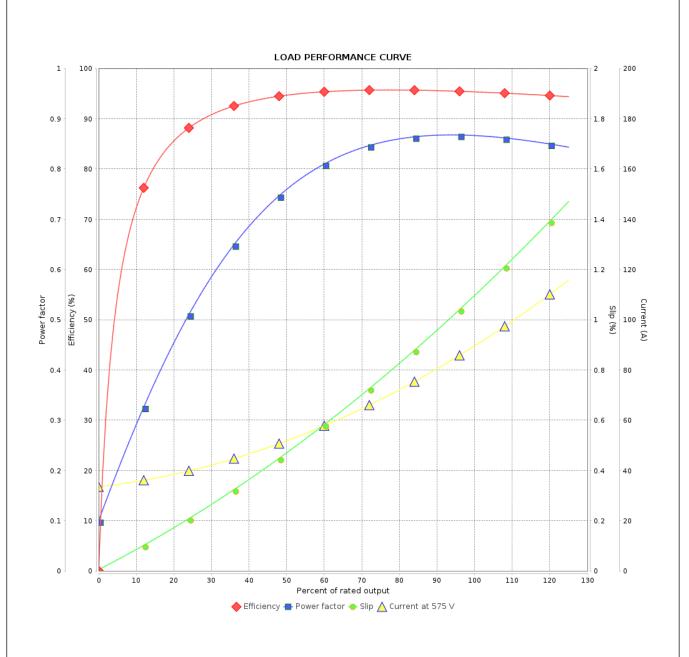
Product line : ODP NEMA Premium Efficiency Three-

Phone

Product code:

13775157

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Performance	: 575 V 60 Hz 4P	<u> </u>	,	
Performance	. 575 V 60 HZ 4P	1		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 90.4 A : 6.7 : 40.8 kgfm : 229 % : 270 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.9623 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	2
Rev.	Changes Summary	Performed	Checked	Date
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Checked by			Page	Revision

05/05/2024

Date